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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Eric JACQUINOT et al

Application No.: 09/427,675

Filed: October 27, 1999

For: NEW ABRASIVE COMPOSITION...



Art Unit: 17654

Examiner: D. V. N. Deo

Washington, D.C.

Atty.'s Docket: JACQUINOT=7

Confirmation No.: 3607

Date: December 19, 2005  
**MONDAY**

Customer Service Window, Mail Stop Appeal Brief-Patents

Honorable Commissioner for Patents  
U.S. Patent and Trademark Office  
Randolph Building, 401 Dulany Street  
Alexandria, Virginia 22314

Sir:

Transmitted herewith is a RE-SUBMISSION OF APPELLANTS' REPLY BRIEF in the above-identified application.

- [ ] Small Entity Status: Applicant(s) claim small entity status. See 37 C.F.R. §1.27.  
 No additional fee is required.  
 The fee has been calculated as shown below:

	(Col. 1)	(Col. 2)	(Col. 3)
	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR
TOTAL	*	MINUS	** 20
INDEP.	*	MINUS	*** 3
FIRST PRESENTATION OF MULTIPLE DEP. CLAIM			

SMALL ENTITY		OTHER THAN SMALL ENTITY	
RATE	ADDITIONAL FEE	RATE	ADDITIONAL FEE
x 25	\$	x 50	\$
x 100	\$	x 200	\$
+ 180	\$	+ 360	\$
ADDITIONAL FEE TOTAL		TOTAL	

- \* If the entry in Col. 1 is less than the entry in Col. 2, write "0" in Col. 3.  
 \*\* If the "Highest Number Previously Paid for" IN THIS SPACE is less than 20, write "20" in this space.  
 \*\*\* If the "Highest Number Previously Paid for" IN THIS SPACE is less than 3, write "3" in this space.

The "Highest Number Previously Paid For" (total or independent) is the highest number found from the equivalent box in Col. 1 of a prior amendment of the number of claims originally filed.

- Conditional Petition for Extension of Time  
 If any extension of time for a response is required, applicant requests that this be considered a petition therefor.
- [ ] It is hereby petitioned for an extension of time in accordance with 37 CFR 1.136(a). The appropriate fee required by 37 CFR 1.17 is calculated as shown below:

Small Entity

Response Filed Within

- [ ] First - \$ 60.00  
 [ ] Second - \$ 225.00  
 [ ] Third - \$ 510.00  
 [ ] Fourth - \$ 795.00

Month After Time Period Set

Other Than Small Entity

Response Filed Within

- [ ] First - \$ 120.00  
 [ ] Second - \$ 450.00  
 [ ] Third - \$ 1020.00  
 [ ] Fourth - \$ 1590.00

Month After Time Period Set

[ ] Less fees (\$ \_\_\_\_\_) already paid for \_\_\_\_ month(s) extension of time on \_\_\_\_\_.

- [ ] Please charge my Deposit Account No. 02-4035 in the amount of \$ \_\_\_\_\_.  
 [ ] Credit Card Payment Form, PTO-2038, is attached, authorizing payment in the amount of \$ \_\_\_\_\_.  
 [ ] A check in the amount of \$ \_\_\_\_\_ is attached (check no. \_\_\_\_\_).

- The Commissioner is hereby authorized and requested to charge any additional fees which may be required in connection with this application or credit any overpayment to Deposit Account No. 02-4035. This authorization and request is not limited to payment of all fees associated with this communication, including any Extension of Time fee, not covered by check or specific authorization, but is also intended to include all fees for the presentation of extra claims under 37 CFR §1.16 and all patent processing fees under 37 CFR §1.17 throughout the prosecution of the case. This blanket authorization does not include patent issue fees under 37 CFR §1.18.

BROWDY AND NEIMARK, P.L.L.C.

Attorneys for Applicant(s)

By:   
 Sheridan Neimark  
 Registration No. 20,520



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: JACQUINOT=7

In re Application of: ) Confirmation No.: 3607  
Eric JACQUINOT et al. )  
Appln. No.: 09/427,675 ) Art Unit: 1765  
Filing Date: October 27, 1999 ) Examiner: D. V. N. Deo  
For: NEW ABRASIVE )  
COMPOSITION... ) MONDAY  
                        )

**RE-SUBMISSION OF APPELLANTS' REPLY BRIEF**

Customer Service Window, Mail stop **Appeal Brief-Patents**  
Honorable Commissioner for Patents  
U.S. Patent and Trademark Office  
Randolph Building  
401 Dulany Street  
Alexandria, Virginia 22314

Sir:

Attached hereto is a single copy of appellants'  
Reply Brief filed August 12, 2004. Appellants are at this  
time filing a copy of this brief, upon which appellants  
continue to rely, in view of the Examiner's filing of a new  
"Examiner's Answer" on October 17, 2005, which new "Examiner's  
Answer" is a duplicate (it appears to be a xerographic copy)  
of the original Examiner's Answer mailed June 17, 2004.

Appellants have already (on August 12, 2004) filed a  
Request for Oral hearing.

Appellants are re-filing a copy of appellants' Reply  
Brief of August 12, 2004, only because the Examiner has filed

Appln. No. 09/427,675  
Amd. dated December 19, 2005  
Reply to Office Action of October 17, 2005

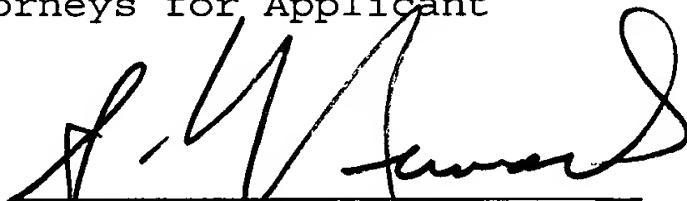
a duplicate copy of the Examiner's Answer on the basis of the "Order Returning Un-Docketed Appeal" mailed December 7, 2004, from the U. S. Patent and Trademark Office Board of Patent Appeals and Interferences, requiring the Examiner to address the Information Disclosure Statement (IDS) filed by applicants on October 27, 1999.

Appellants respectfully request reversal of the rejections of record for the reasons set forth in Appellants' Main Brief filed April 26, 2004, and Appellants' Reply Brief originally filed August 12, 2004, a duplicate copy of which is attached hereto.

Respectfully submitted,

BROWDY AND NEIMARK, P.L.L.C.  
Attorneys for Applicant

By



Sheridan Neimark  
Registration No. 20,520

SN:kg  
Telephone No.: (202) 628-5197  
Facsimile No.: (202) 737-3528  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re Application of: ) Art Unit: 1765  
Eric JACQUINOT et al )  
Appln. No.: 09/427,675 ) Examiner: Duy DEO  
Date Filed: October 27, 1999 ) Washington, D.C.  
For: NEW ABRASIVE COMPOSITION ) Confirmation No.: 3607  
FOR THE INTEGRATED )  
CIRCUITS ELECTRONICS... ) ATTY.'S DOCKET: JACQUINOT=7

**REPLY BRIEF ON BEHALF OF APPELLANTS**

Honorable Commissioner for Patents  
2011 South Clark Place  
Customer Window,  
Mail Stop Appeal Brief-Patents  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

This is a Reply Brief under 37 CFR 1.193(b)(1)  
replying to the Examiner's Answer mailed June 17, 2004.

1. Appellants note that the Examiner has accepted  
Appellants' Summary of the Invention at pages 2-4 of the  
Appellants' Main Brief, and therefore the Examiner accepts  
the statement of improved results achieved by the present  
invention as stated in such Summary portion of Appellants'  
Main Brief.

2. In the middle paragraph on page 3 of the Examiner's Answer, the Examiner implies or suggests that there is some relationship between improving "within-wafer-nonuniformity (WIWNU) of the wafers" and improved selectivity achieved by the present invention. However, the Examiner has not established any basis for his conclusion, and Appellants respectfully submit that such conclusion stated by the Examiner is only based on speculation.

Appellants' Main Brief points out very clearly that Grover teaches that it is the "unique chemistry" which provides improved selectivity in Grover, noting for example pages 10, 11 and 17 of Appellants' Main Brief, as well as the top paragraph on page 20 of Appellants' Main Brief. Indeed, Grover is correct as proven by experiments conducted by Dr. Jacquinot and which appear in his Declaration (see, e.g., bottom paragraph on page 20 of Appellants' Main Brief).

Contrary to the argument of the Examiner in the middle paragraph on page 3 of the Examiner's Answer, Grover does not teach any relationship between the presence of surfactant and improved selectivity.

3. In the first full paragraph under the heading "Response to Argument" near the top of page 4 of the

Examiner's Answer, and again in the paragraph spanning pages 4 and 5, the Examiner jumps to another conclusion, ignoring the fact that Grover provides no substantial or meaningful motive or incentive for incorporating surfactant. But this in any event is not a main argument of Appellants'.

Instead, Appellants asked (and continue to ask) the question why would the person of ordinary skill in the art seeking a solution to problems faced by Appellants even consider Jacquinot when Grover already teaches a solution to the same problem by doing something substantially different, i.e. proceeding with Grover's "unique chemistry". The Examiner provides no answer to this question, and no rebuttal to Appellants' argument in this regard, e.g. that following Grover leads in a different direction away from Appellant's claimed invention.

4. In the second paragraph under the heading "Response to Argument" on page 4 of the Examiner's Answer, the Examiner sets up a straw man to knock him down. It should go without saying the references must be discussed individually to understand what each teaches individually, prior to the discussion of whether or not their combination would have been obvious to the person of ordinary skill in the art at the time the claimed invention was made.

Appellants both discussed the references individually and the nonobviousness of their proposed combination.

5. The Examiner's comments in the first full paragraph on page 5 of the Examiner's Answer makes no sense to Appellants, but Appellants will try to answer based on what the Examiner seems to be saying. As regards the Examiner's "first of all" comment, i.e. "the reason for adding a surfactant [in Grover] is not the selectivity", this supports Appellants' position, i.e. here the Examiner appears to agree that adding surfactant has no relationship to improved selectivity.

As regards the Examiner's "second of all" comment, the improved selectivity inherently obtained according to Appellants' claimed process is part of Appellants' invention "as a whole" and need not be claimed, e.g. *In re Estes*, 164 USPQ 519, 521 (CCPA 1970). Also see *In re Ward*, 141 USPQ 227, 228 (CCPA 1964); *Ex parte Tiemann*, 157 USPQ 158, 160 (POBA 1967); *In re Wright*, 6 USPQ2d 1959, 1962 (Fed Cir 1988).

Improved selectivity is an inherent feature of Appellants' claimed subject matter, and is part of Appellant's invention "as a whole".

6. In the bottom paragraph on page 5 of the Examiner's answer, the Examiner attacks Dr. Jacquinot's Declaration, so as to mostly brush it aside. For example, the Examiner chooses to brush aside or ignore the improved selectivity established by Dr. Jacquinot's Declaration. Indeed, the Examiner admits that "the Declaration shows a better polishing selectivity between the TEOS and the nitride..." but says that he may ignore this because "the claims do not have or include neither [sic] the selectivity nor the slurry stability." But, again, selectivity need not be claimed because it is part of Appellants' invention as a whole.

Dr. Jacquinot's test results as shown in his Declaration provide evidence of various kinds, these being briefly discussed for example at pages 20-23 of Appellants' Main Brief, relied upon by Appellants. For example, Dr. Jacquinot's Declaration shows the relative unimportance of the surfactant in the Grover slurry. It further shows a vast increase when the surfactant is added to the slurry of the Jacquinot primary reference. It also shows that the presence of surfactant in the Grover composition does not increase the stability of that composition, whereby real world experience with Grover would tell those of ordinary skill in the art that there is no meaningful advantage to be

achieved by using surfactant in the Grover composition, whatever small improvement might be achieved being offset by extra material and processing costs.

Moreover, insofar as Dr. Jacquinot's Declaration is concerned, it is **evidence**. The law is clear that no evidence should be ignored, e.g. *In re Khelghatian*, 150 USPQ 661, 663, footnote 2 (CCPA 1966). Moreover, evidence of nonobviousness may be indirect, e.g. *In re Blondel et al.*, 182 USPQ 294, 198 (CCPA 1974). The Examiner improperly disregarded Dr. Jacquinot's Declaration.

7. The Examiner has not answered or rebutted many of Appellants' arguments set forth in Appellants' Main Brief. As the Examiner has not answered or rebutted these points, it must be assumed that the Examiner cannot rebut same and has no answer for same.

For example, Grover requires features which are not incorporated into the present invention. Grover therefore teaches **away from** the present invention and any reliance on Grover must result in subject matter which is quite different from what Appellants' claims (pages 14-18 of Appellants' main Brief).

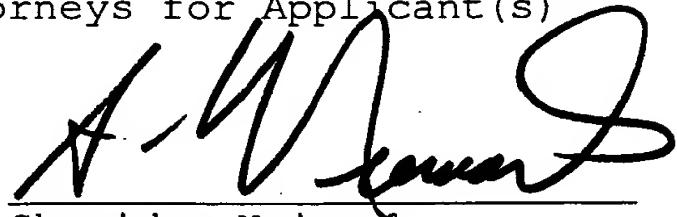
Wherefore the Examiner has not met his burden in establishing a *prima facie* case of obviousness; and the

Examiner has not considered all the evidence, wherefore the rejection should be reversed. Such is again respectfully prayed.

Respectfully submitted,

BROWDY AND NEIMARK, P.L.L.C.  
Attorneys for Applicant(s)

By



Sheridan Neimark

Registration No. 20,520

SN:jaa

Telephone No.: (202) 628-5197

Facsimile No.: (202) 737-3528

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